

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Incorporating Alternative Energy into NJDOT's Physical Plant	
RFP NUMBER: 7122455 and 7122463	NJDOT RESEARCH PROJECT MANAGER: Vincent Nichnadowicz	
TASK ORDER NUMBER: 9	PRINCIPAL INVESTIGATOR: Josh DeFlorio	
Project Starting Date: 9/1/2009 Project Ending Date: 8/31/2010	Period Starting Date: 4/1/2010 Period Ending Date: 6/30/2010	

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Review Existing Energy Profile	11%	\$14,128	0%	\$0	100%	\$14,128
2. Potential Alt Technologies	71%	\$91,187	44%	\$40,122	99%	\$90,275
3. Final Report	18%	\$23,118	68%	\$15,720	100%	\$23,118
TOTAL	100%	\$128,432		\$55,842		\$127,521

Project Objectives:

The objectives of this project are to:

1. Clarify the technical, financial, regulatory, and environmental feasibility of incorporating renewable, on-site energy infrastructure into three selected NJDOT facilities.
2. Develop a Final Report to summarize the work performed and findings from Tasks 1 and 2, and to provide a decision-making framework for alternative energy investments at NJDOT facilities..

Project Abstract:

This project will clarify the technical, financial, regulatory, and environmental feasibility of incorporating renewable, on-site energy infrastructure into three selected NJDOT facilities. This effort also will endeavor to highlight innovative approaches to project delivery, financing, and implementation. The final report will provide NJDOT with a solid decision-making platform from which well-informed, facility-specific alternative energy initiatives may be launched.

1. Progress this quarter by task:

Task 1:

- n/a (completed).

Task 2:

- Presented draft power production analysis and simple paybacks to client and customer (4/5/10).
- Refined and validated power production analysis and assumptions.

- Completed project development *pro formas* for 14 scenarios.
- Completed greenhouse gas impacts evaluation.
- Researched and wrote sample power purchase agreement RFP scopes (two scenarios).

Task 3:

- Submitted Draft Final Report for client review on 5/11/10.
- Submitted Tech Brief (5/26/10).
- Resubmitted Final Report, with formatting changes and addition of appendices.

2. Proposed activities for next quarter by task

- None anticipated

3. List of deliverables provided in this quarter by task (product date)

- Draft Final Report (5/11/10)
- Sample Power Purchase Agreement RFP 1 (5/20/10)
- Tech Brief (5/26/10)
- Final Report (anticipated 6/16/10)
- Sample Power Purchase Agreement RFP 2 (6/16/10)

4. Progress on Implementation and Training Activities:

- No work on implementation or training in this period

5. Problems/Proposed Solutions:

- No problems identified for this period

Total Project Budget	\$128,432.30
Contract Amount:	\$128,432.30
Total Project Expenditure to date	\$127,521.00
% of Total Project Budget Expended	99%